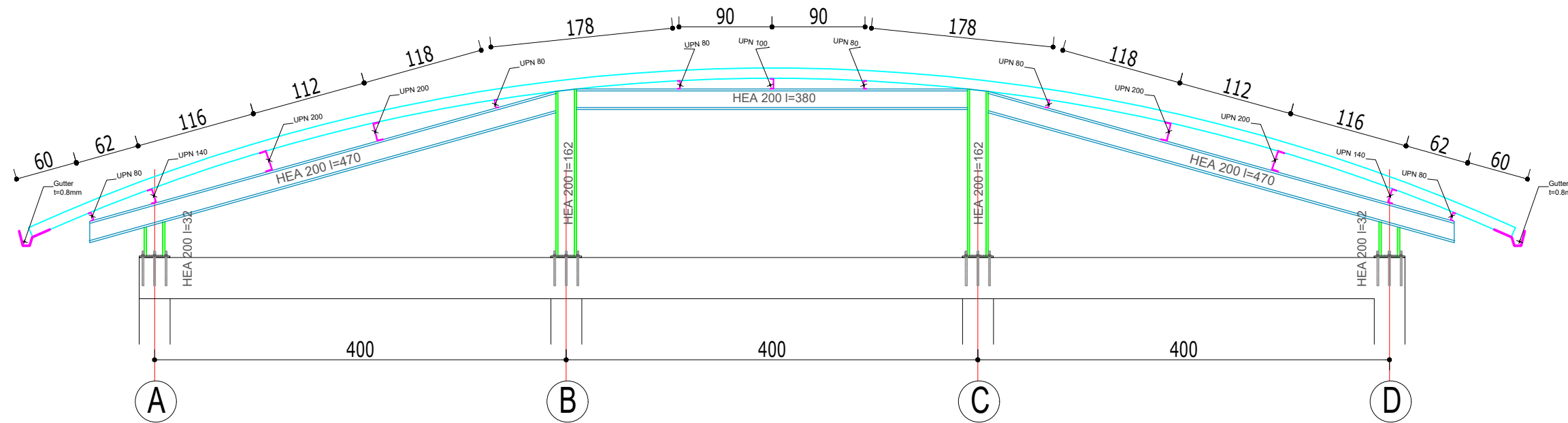


ROOF DETAIL

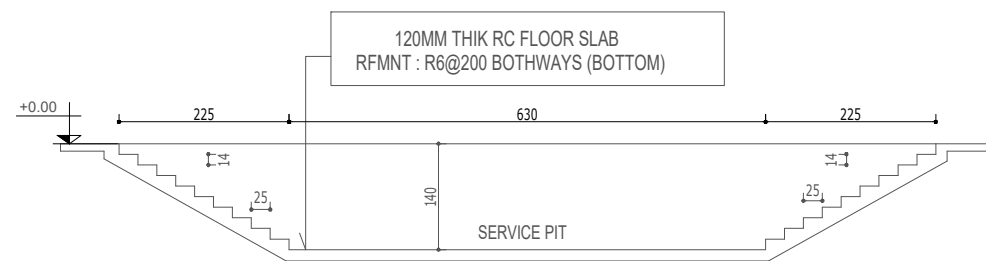
Main Frame



GUIDELINES

- Beam HEA200, Column HEA200
- End Plate
 - Dimensions 300x300 mm
 - Thickness 1x10 mm
 - Steel type Fe430
- Bolts
 - Diameter Ø14 mm
 - Class Bolt 5.6
 - Hole tolerance 0.1 mm
- Welding
 - Minimum Thickness 19 mm

Unless otherwise prescribed, all weldings in joints shall be full penetration or double fillet, wide not less than the thickness of the members being connected.



Technical Notes:

Structural elements are calculated and designed with following characteristics:

Foundation: Foundations are designed with plinths:

- Concrete C-25/30 ($f_{ck}=25000\text{N/mm}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement S460A ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Walls & Columns: All walls & columns are designed with:

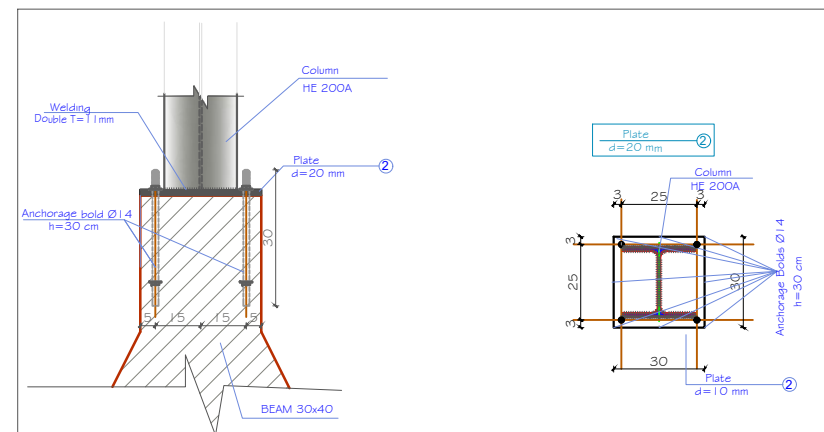
- Concrete C-25/30 ($f_{ck}=25000\text{N/mm}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement S460A ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$



Concrete Beams: Beams for all storyes are designed with:


- Concrete C-25/30 ($f_{ck}=25000\text{N/mm}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement S460A ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Slab: Slabs for all storyes are designed with:

- Concrete C-25/30 ($f_{ck}=25000\text{N/mm}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement S460A ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$



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Name				
Designed	Qinami	April 2018		
Drafted	Qinami	April 2018		
Checked		April 2018		
Project No.	213 - 68524			

Client	Ministry of Environment and Energy			
Project Title	Consultancy Services for Feasibility Study for an Integrated Solid Waste Management System for Zone III (including Greater Malé) and Preparation of Engineering Design of the Regional Waste Management Facility at Thilafushi			
Design phase	Detailed Design Harbour Rehabilitation			
Contents	Workshop Building - Roof Detail and Service pit			
Scale	1 : 50			
Drawing No.	4.2.11	Paper	A3	